Shell Oil Products US



October 13, 2011

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Director, Air Enforcement Division
Office of Regulatory Enforcement
U.S. Environmental Protection Agency, Mail Code 2242-A
1200 Pennsylvania Avenue, N.W.
Washington, D.C. 20460-0001

Subject:

United States v Equilon Enterprises, LLC

Civil Action Number H-01-0978

Southern District of Texas entered August 21, 2001

Flaring Incident Report – September 21, 2011 Shell Oil Products US, Puget Sound Refinery

Dear Sir or Madam:

Pursuant to Section VIII, Paragraph 136 of the consent decree in *United States v Equilon Enterprises LLC*, Civil Action Number H-01-0978, entered August 21, 2001 by the United States District Court-for the Southern District of Texas, Shell Oil Products US submits the following information regarding a Hydrocarbon Flaring Incident, as defined in Paragraph 120(f), that occurred at the Puget Sound Refinery. The incident was investigated and a detailed report listing the root causes is included in the attached Incident Report.

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and that I have made a diligent inquiry of those individuals immediately responsible for obtaining the information and that to the best of my knowledge and belief, the information submitted herewith is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

If you have any comments or questions regarding this information, please contact Tim Figgie at (360) 293-1525.

Sincerely,

Thomas J. Rizzo General Manager

Enclosure

cc (w/enclosures):

Director, Air Enforcement Division U.S. Environmental Protection Agency c/o Matrix Environmental & Geotechnical Services 120 Eagle Rock Avenue, Suite 207 East Hanover, NJ 07936

Director NWCAA 1600 South 2nd Street Mount Vernon, WA 98273

John Keenan Office of Air Quality (OAQ-107) US EPA – Region 10 1200 Sixth Avenue Seattle, WA 98101

Type of Incident:		G INCIDENT REPORT G Tail Gas	⊠ Hydr	ocarbon
the Delayed Coking Unit pump 15G5, which pulls in the Fractionator Overhdrum) to immediately stashutdown of the compres Operations personnel fou The pump was not trippe or failed equipment but t	roximately 2:55 pi (DCU) tripped resinaphtha to the recined Accumulator of art to rise. A high soor as a safety mend that the 15G5 and out or damaged that did not happer tarted the pump, were asserted the pump, we will be a sound to the pump.	m the 15K1 Fractionator Orulting in excess flaring. The covery section, stopped puredrum (compressor 15K1 tain level in the accum drum easure to prevent damage pump was off when they recover and none of the equipme which dropped the liquid least 15K1.	e trip occurre mping allowir kes suction for resulted in the to the compresponded to the because of lont because of lont	ed when ag the level com this e automatic essor. the incident. ass of suction dicated a
were tripped out and no	equipment monito age SO2 reading a	caused pump 15G5 to shuring sensors indicated a probove 1000-ppm corrected	oblem. This	event
Incident Start Date:	9/21/2011	Incident Start Time:	2:55 pm	
Incident End Date:	9/21/2011	Incident End Time:	4:00 pm	
Estimated Sulfur Dioxide Emissions: 518 lbs Pounds (Attach below): S02 lbs/hr = 0.995*(flare gas flow, MSCFH * 1000) * (Sulfur, vol% / 100) * (64.0648/379), where 0.995 is flare efficiency, 64 #/#-mole is the MW of S02 and 379 is scf/#-mole				
ANALYSIS OF INCID No additional information Primary and contributi	as operating to red duced on the DCU ENT AND COR n attached ng causes of inci- ent was the shutdo	covery as much excess flar during the event. RECTIVE ACTIONS dent: wn of pump 15G5 on the f	e gas as poss	sible. In addition,
Analyses of measures avoperational, and mainte cost; determine if an ou The cause of the pump ou cannot be determined.	vailable to reducenance changes; etside consultant attage could not be	e likelihood of recurrendiscuss alternatives, proshould be retained to as identified and therefore co	bable effect sist with an rrection action	iveness, and alyses): on measures
Description of correctiv See above.	e action to be tal	ken (include commencer	nent and co	mpletion dates):
If correction not require See above.	ed, explain basis	for conclusion:		

The	ncident was the result of or resulted in the following (check all that apply): Error from careless operation				
	Equipment failure due to failure to operate and maintain in accordance with good engineering practice				
	Sulfur dioxide emissions greater than 20 #/hr continuously for three or more				
	consecutive hours Caused the number of Acid Gas or Tail Gas incidents in a rolling twelve-month				
	period to exceed five None of the above				
	None of the above				
Was	the root cause identified as a process problem isolated within an SRP?				
ابا	Yes (An optimization study of the affected SRP is required as part of the corrective actions identified above.)				
\boxtimes	No				
The	oot cause of the incident was:				
\boxtimes	Identified for the first time since March 21, 2001				
	Identified as a recurrence since March 21, 2001 (explain previous incident(s) below)				
Was	the root cause of the incident a malfunction?				
\boxtimes	Yes (describe below)				
	No The root cause of this event was the shutdown of pump 15G5 on the fractionator accumulator				
	drum. The cause of the pump outage could not be identified.				
	Definition of Malfunction: Any sudden, infrequent, and not reasonably preventable				
	failure of air pollution control equipment, process equipment, or failure of a process to operate in a normal or usual manner. Failures that are caused in part by poor				
	maintenance or careless operation are not malfunctions.				
	ORTING REQUIREMENTS				
	it initial report, supporting documents and assessment of stipulated penalties, if any,				
withi	a 30 days of the incident to the EPA Regional Office and Northwest Clean Air Agency.				
	the time the first report is submitted (within 30 days of Stipulated penalties do not				
	ncident), corrective actions have not been determined a apply to hydrocarbon flaring events.				
	w-up report is required within 45 days of first report ess otherwise approved by the EPA). Provide anticipated				
	of follow-up report.				
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т.					
Prepa	red By:Jeff Solomon Date:September 28, 2011				